IN THE SPECIFICATION

Please amend the Abstract of the Disclosure on page 44 of the application as follows:

A resource allocator ~~is operable to~~ allocates a plurality of resources among a plurality of tasks within a process system. ~~The process system is capable of executing at least one application process.~~ The resource allocator includes a monitoring controller ~~operable to~~ for monitoring one or more characteristics associated with [[the]] at least one application process, the resources, and the tasks. The resource allocator also includes a model of the process system representing mathematically the resources and the tasks and defining relationships among related ~~ones of the~~ resources and [[the]] tasks ~~as a function of the at least one application process~~. The resource allocator further includes a resource allocation controller ~~operable to operate~~ for operating the model in response to ~~ones of~~ the monitored characteristics and ~~allocate ones of~~ allocating the resources among ~~ones of~~ the tasks ~~to execute the at least one application process~~. In addition, the resource allocator includes a graphical user interface ~~operable to~~ for identifying the resources and flows between at least some of the resources. The graphical user interface includes at least one virtual queue associated with at least one of the resources and identifying one or more items to be processed by the at least one resource.